Back-Up Computer System (BUCS)

5 May 2004

Back-Up Computer System (BUCS) TAMCN:

- **Specifications:** Hewlett Packard 71B Programmable Calculator. Utilized platform specific gunnery “chips” or survey “chips”. Survey calculations not valid after 2000.
- **Capabilities:** hand-held programmable computer, with printer, performs ballistic or survey functions and firing solutions supporting of field artillery systems. Primary function is back-up system to the Battery Computer System (BCS) for FA units.
- **Documentation**: ROC Oct 84, SL-3 Nov 91
- **Status**: Not supported. No spares available.

Field date - 1990

Back-Up Computer System-Replacement (BUCS-R) TAMCN: None

- **Specifications:** Hewlett Packard 200LX.
- **Capabilities:**.Hand-held programmable computer, performs survey functions previously accomplished on BUCS.
- **Documentation**: None.
- **Status**: One time fielding. No support. No spares available.

Field date - 2000

Back-Up Computer System-Replacement Upgrade (BUCS-RU) TAMCN: TBD

- **Specifications:** Ruggedized Personal Data Assistant (RPDA).
- **Capabilities:**. Upgrades software from BUCS-R to perform survey functionality on new supportable hardware. Adds meteorological program.
- **Documentation**: TBD.
- **Status**: Currently undergoing testing and development. Fielding scheduled for 4th Quarter 2004.

Field date - 2004

Lightweight Technical Fire Direction System
TAMCN: TBD

- **Specifications:**
  1.2 – 2.9 pounds w/ battery
  5.75” x 3.5” x 1.5”
- **Capabilities:**.Provides automated technical firing solution data redundancy for the FDC. Provides technical solution information to the firing battery FDC for emergency missions and as primary back-up to the AFATDS for technical fire direction (TFD) solutions. Provides new capability for TFD safety verification.
- **Documentation**: Test Report for LWTFDS Dec 03. SSAA, and Safety Accreditation.
- **Status**: Fielded as CENTAUR in Army. USMC fielding scheduled for FY05. (Evaluating addition of current version to BUCS-RU)

Field date – 2005

BUCS Development Tree

BUCS

BUCS-R

Gunnery chips

Survey chips

LWTFDS

LWTFDS Future Build

BUCS-RU

Future Development

- Addition of FOS survey functionality to LWTFDS software
- Make LWTFDS an application on the DDACT
- Maintain meteorological program
- Add communications capability with AFATDS, TLDHS, GDU

Questions?